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Magyar Energiagazdasag.

PROTECT HUNGARIAN COAL FOR COKING

Plants which coke coal from Pecskomlo by high-temperature, dry distillation, may have found that this coal is not suitable for storage. If it is stored in the open, it becomes more difficult to coke within about one week. When fresh, this coal renders coke of a very satisfactory quality. After a few weeks of storage, during the process of destructive distillation, only coke dust will be obtained

This presents an important problem, since coke dust is difficult to market and only low prices can be obtained for it. The Municipal Gas Works at Obuda, among others, has conducted experiments to eliminate this deterioration in the coal and excellent results were obtained.

As soon as the coal is delivered, it is stored in layers and is sprayed with water. The spraying is discontinued only when a new layer of coal is stored. Otherwise, the coal is sprayed day and night. Spraying is discontinued 36 hours before use, the excess water flows off, and the coal has the water content of fresh shipments. The effect of the process is that the water protects the coal from the action of the air and the sun.

A control experiment was made by at ring 40 tons of rough coal from 30 August 1950 to 4 October; 20 tons were stored in the original state and 20 tons were continually sprayed. Both the sprayed and unsprayed coal were then subjected to destructive distillation. The following results were obtained:

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	Sprayed Coal		Unsprayed Coal	
Coke Produced	Percentage Yield	Humidity Percentage	Percentage Yield	Humidity Percentage
Rough coke Egg I Egg II Gritty coke	38.1 17.9 6.4 9.1 71.5	5 7 10 12	4.2 6.5 3.9 46.2 60.8	5 7 10 12

The process described requires a relatively small investment.

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